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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# High Frequency Ceramic Solutions

**863-928MHz ISM Balun-Filter Integrated passive**

**P/N 0896FB15A0100**

Detail Specification: 11/10/2010

Page 1 of 2

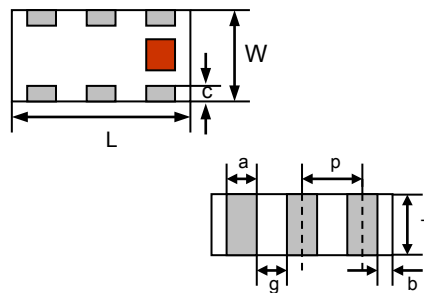
## General Specifications

<b>Part Number</b>	0896FB15A0100	<b>Attenuation (dB)</b>	30 min. @1726~1856MHz
<b>Frequency (MHz)</b>	863 - 928		30 min. @2589~2784MHz
<b>Unbalanced Impedance</b>	50 Ω		30 min. @3452~3712MHz
<b>Balanced Impedance</b>	100 Ω	<b>Power Rating</b>	1W max.
<b>Insertion Loss</b>	1.5 dB max.	<b>Reel Quantity</b>	4000
<b>Return Loss</b>	11.7 dB min.	<b>Operating Temp.</b>	-40 to +85 °C
<b>VSWR @ BW</b>	1.7 max.	<b>Storage Conditions</b>	+5 to +35°C, RH 45 to 75%
<b>Phase Difference</b>	180° ± 15	<b>Storage Period</b>	12 mos. max.*
<b>Amplitude Difference</b>	2.0 dB max.		

\* - 1 yr shelf life in bag; 1 week shelf life out of bag; Vacuum reseal unused reel. More info: [www.johansontechnology.com/silverleads](http://www.johansontechnology.com/silverleads)

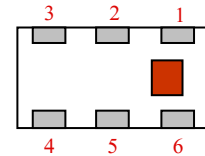
## Mechanical Dimensions

	In	mm
<b>L</b>	0.079 ± 0.008	2.00 ± 0.20
<b>W</b>	0.049 ± 0.008	1.25 ± 0.20
<b>T</b>	0.028 ± 0.004	0.70 ± 0.10
<b>a</b>	0.012 ± 0.004	0.30 ± 0.10
<b>b</b>	0.008 ± 0.004	0.20 ± 0.10
<b>c</b>	0.012 +.004/-0.008	0.30 +0.1/-0.2
<b>g</b>	0.014 ± 0.004	0.35 ± 0.10
<b>p</b>	0.026 ± 0.002	0.65 ± 0.05



## Terminal Configuration

No.	Function
<b>1</b>	Unbalanced Port
<b>2</b>	GND
<b>3</b>	Balanced Port
<b>4</b>	Balanced Port
<b>5</b>	GND
<b>6</b>	GND



## Mounting Considerations

\* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

**Legend:**  
 □ Solder  
 ■ Land  
 ○ Through-hole (φ 0.3)

**Layout A:** Recommended for all sub 1 GHz designs. Dimensions: 0.35, 0.8, 1.0, 0.30. Includes a 100pF (EIA 0402 or 0603) DC Blocking capacitor.

**Layout B:** Alternative when sharing same land pattern with 2.45GHz designs. Dimensions: 0.35, 0.8, 0.30. Includes a 0Ω Resistor.

**Option B:** Pin#6 connected to ground.

Units: mm

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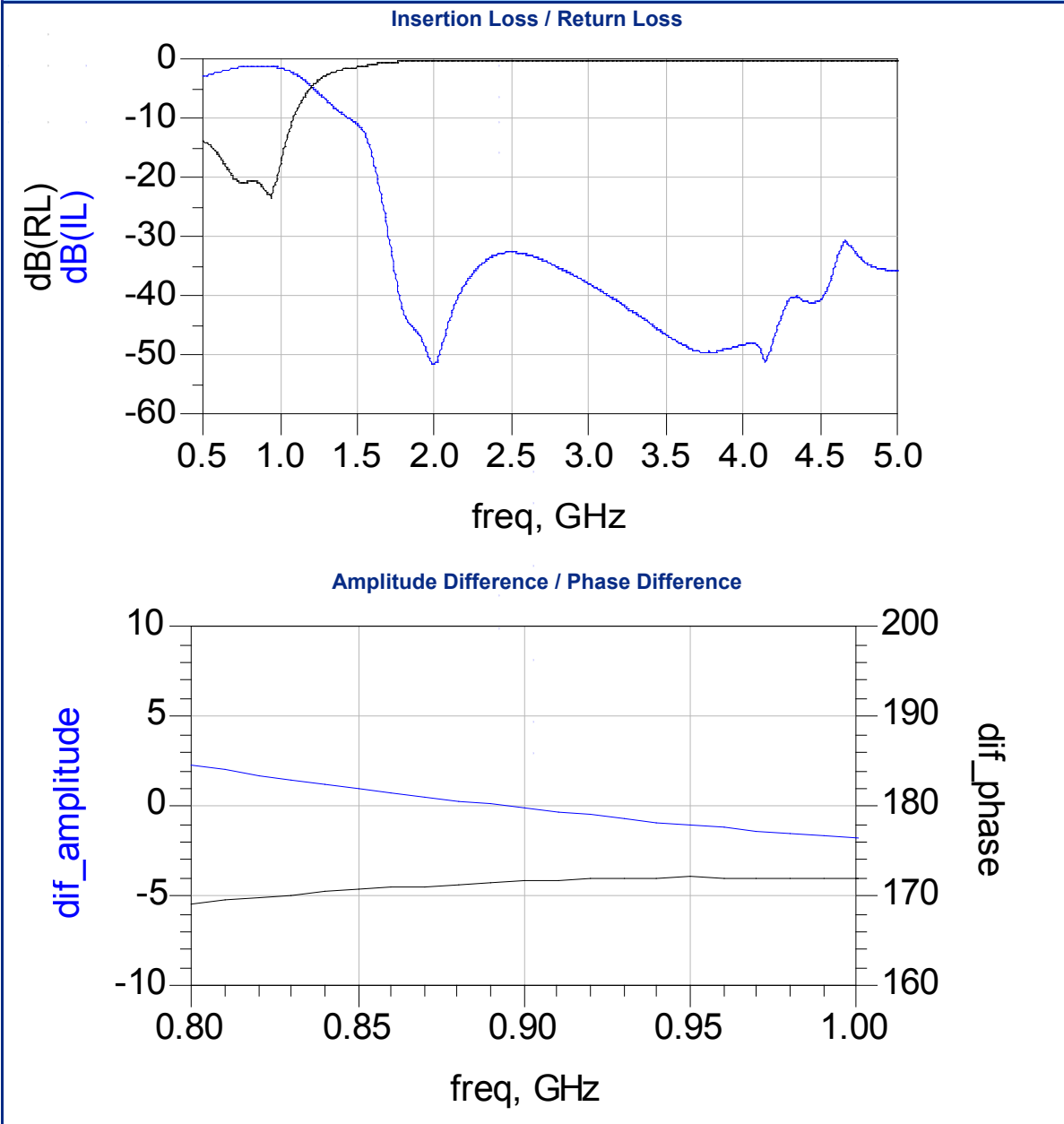
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Ver. 3.0

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Typical Electrical Performance (T=25°C)



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